BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Balance Roads at Ramachandrapura area in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

							Estimate Cost:		2500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	For Drain Desilting								
	Ramachandrapura Area		2	180.00	0.45	0.40	64.80		
	RR School and Kempegowda Layout area		2	300.00	0.45	0.35	94.50		
	Gopallappa layout		2	250.00	0.45	0.35	78.75		
	Muneshwara layout		2	240.00	0.45	0.45	97.20		
	Berm Cutting								
	Ramachandrapura Area		2	180.00	0.90	0.20	64.80		
	RR School and Kempegowda Layout area		2	300.00	0.90	0.20	108.00		
	Gopallappa layout		2	250.00	0.90	0.20	90.00		
	Muneshwara layout		2	240.00	0.90	0.20	86.40		
							684.45	208.93	**142999.00**
	Basic Rate	82.00							
	AD-HOC @ 11% of PWD SR 2016-17	9.02							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		197.10							
	Area Weightage @6%	11.83							
	Total	**208.93**							
2	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	Ramachandrapura Area		1	180.00	4.50	0.23	186.30		
	RR School and Kempegowda Layout area		1	300.00	5.00	0.23	345.00		
	Gopallappa layout		1	250.00	5.00	0.23	287.50		
	Muneshwara layout		1	240.00	5.00	0.23	276.00		
							1094.80		
	Consider 25% of the Total Qty						**273.70**	1962.57	**537155.00**
	Basic Rate	1668.00							
	AD-HOC @ 11% of PWD SR 2016-17	183.48							
	Sub Total	**1851.48**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	111.09							
	Total	**1962.57**							
3	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	Ramachandrapura Area		1	180.00	4.50		810.00		
	RR School and Kempegowda Layout area		1	300.00	5.00		1500.00		
	Gopallappa layout		1	250.00	5.00		1250.00		
	Muneshwara layout		1	240.00	5.00		1200.00		
							4760.00	3.53	**16802.00**
	Basic Rate	3.00							
	AD-HOC @ 11% of PWD SR 2016-17	0.33							
	Sub Total	**3.33**							
	Area Weightage @ 6%	0.20							
	Total	**3.53**							
4	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 161 / Item No. 21.7 PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 3				4760.00		
							4760.00	12.94	**61607.00**
	asper Revised Basic Rate	11.00							
	AD-HOC @ 11% of PWD SR 2016-17	1.21							
	Sub Total	**12.21**							
	Area Weightage @ 6%	0.73							
	Total	**12.94**							
5	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	Cum							
	Ramachandrapura Area		1	180.00	4.50	0.040	32.40		
	RR School and Kempegowda Layout area		1	300.00	5.00	0.040	60.00		
	Gopallappa layout		1	250.00	5.00	0.040	50.00		
	Muneshwara layout		1	240.00	5.00	0.040	48.00		
	Revised Basic Rate	7659.00					**190.40**	9011.58	**1715805.00**
	AD-HOC @ 11% of PWD SR 2016-17	842.49							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Sub Total	**8501.49**							
	Area Weightage @ 6%	510.09							
	Total	**9011.58**							
	Sub Total								**2474368.00**
	For Third Part QC inspection Charges @ 1%								**24744.00**
	Miscellaneous and other Charges	L/S							**888.00**
								Total	**2500000.00**
Rupees Twenty Five Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2017-18 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

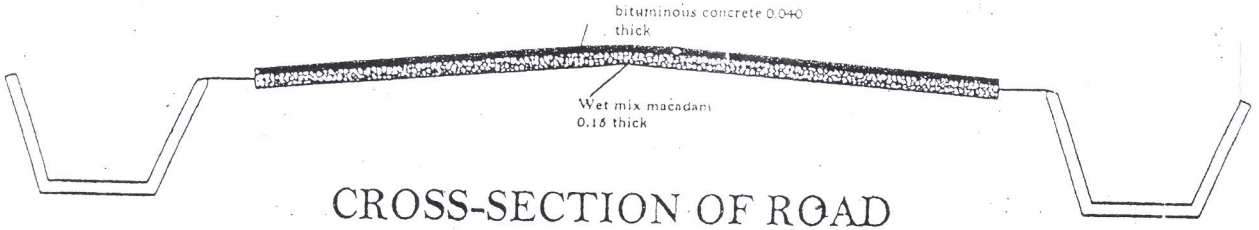
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
Bruhat Bangalore Mahanagara Palike
~~Hebbal Division~~

Administrative Approval
Accorded For .....
Head of A/C.....
CEK NO : 349 Dt: 08-02-18
LTA CE (YNK)

Technical Sanction
Accorded For .....
Head of A/C.....
CE NO : 688 Dt: 16.02.18
LTA CE (YNK)



CROSS-SECTION OF ROAD

INDEX

- Wet mix macadam
- bituminous concrete

AE, W-10